CEMP-ET

## U.S. Army Corps of Engineers Washington, D.C. 20314-1000

ETL 111 0-3-486

Technical Letter No. 1110-3-486

3 November 1997

## Engineering and Design ARMY AIRFIELD/HELIPORT PAVEMENT DESIGN

- 1. <u>Purpose</u>. This letter updates guidance for the design of Army airfield/heliport pavements in accordance with TM 5-825-1/AFMAN 32-8008, Vol. 1, by providing the appropriate pavement thickness design curves.
- 2. <u>Applicability</u>. This letter applies to all HQUSACE elements and USACE commands having military construction and design responsibility.
- 3. References.
  - a. TM 5-8034, "Planning of Army Aviation Facilities."
  - b. TM 5-822-12, "Design of Aggregate Surfaced Roads and Airfields."
- c. TM 5-825-1/AFMAN 32-8008, Vol. 1, "General Provisions for Airfield/Heliport Pavement Design."
- d. TM 5-825-2/AFM 88-6, Chap. 2/DM 21.3, "Flexible Pavement Design for Airfields."
  - e. TM 5-825-3/AFM 88-6, Chap. 3, "Rigid Pavements for Airfields."
- 4. Distribution. Approved for public release; distribution is unlimited.
- 5. <u>Background</u>. During the past several years, the four classes of Army airfield/heliport pavements referenced in TM 5-8034 have been revised and expanded into six classes based on mission requirements for each airfield/heliport in accordance with TM 5-825-1. This change necessitated the development of new Army pavement design curves as provided in Appendix A. These design curves are already included in the USACE airfield pavement computer design programs.
- 6. Action. Pending publication of the revised technical manuals above, the pavement design curves provided in Appendix A will be used in the design of Army airfield/heliport pavements. These curves supersede all previous Army airfield/heliport pavement design curves contained in TM 5-822-12, TM 5-825-2/AFM 88-6, Chap. 2/DM

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21.3 and TM 5-825-3/AFM 88-6, Chap. 3.

7. Implementation. This letter will have routine application for all future military projects as defined in paragraph 8c, ER 1110-345-100.

FOR THE COMMANDER:

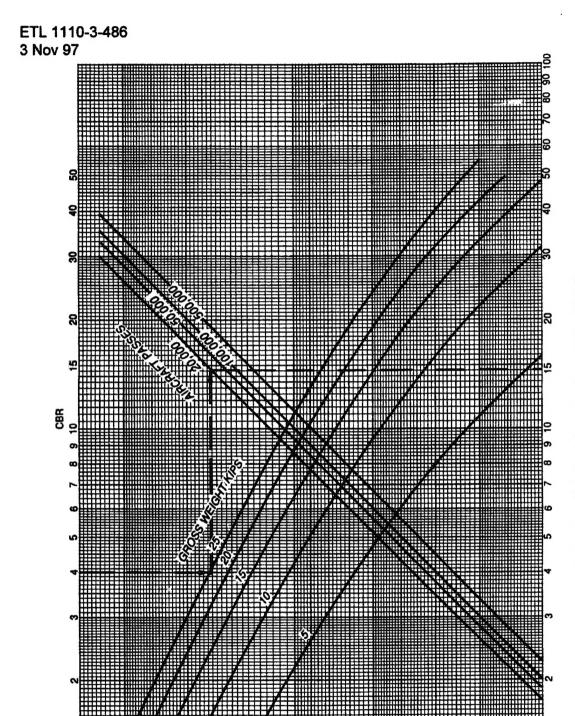
1 Appendix APP A - Design Curves KISUK CHEUNG, P.E.

Chief, Engineering and Construction Division

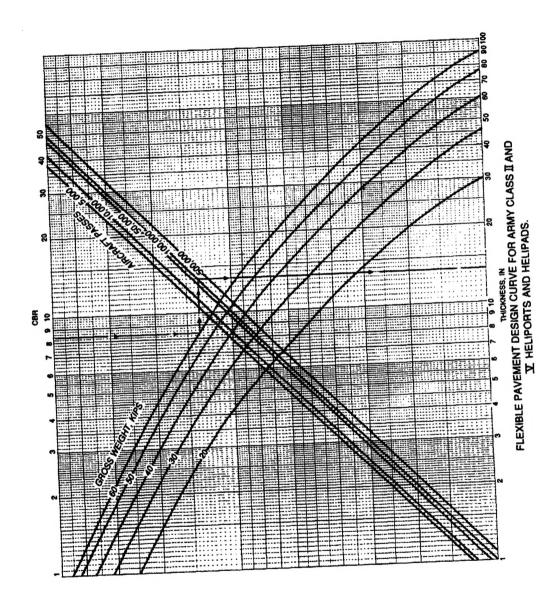
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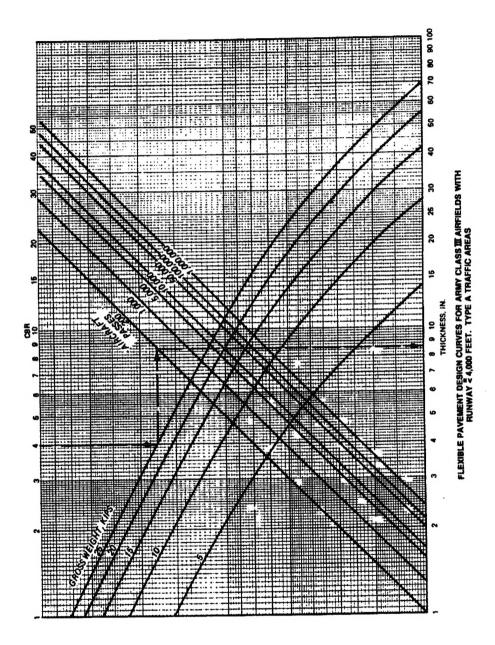
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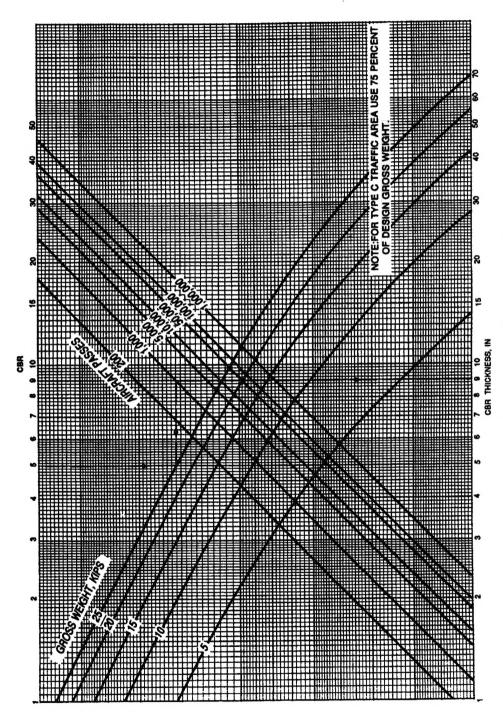
## APPENDIX A DESIGN CURVES



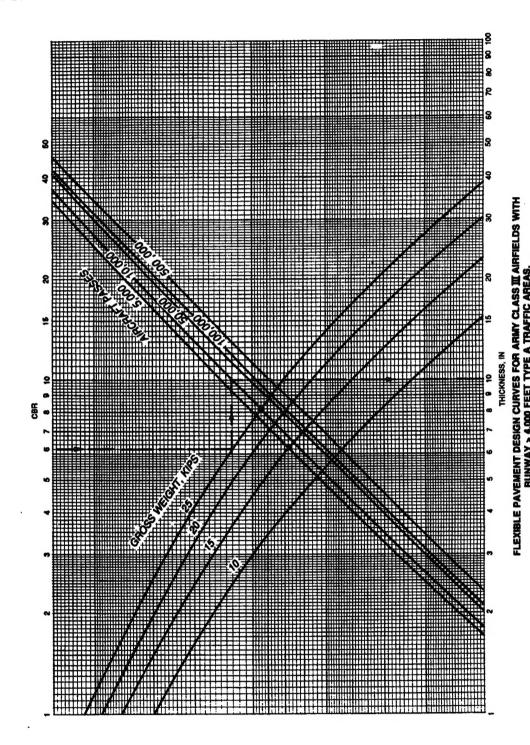
FLEXIBLE PAVEMENT DESIGN CURVE FOR ARMY CLASSI HELIPORTS AND HELIPADS.

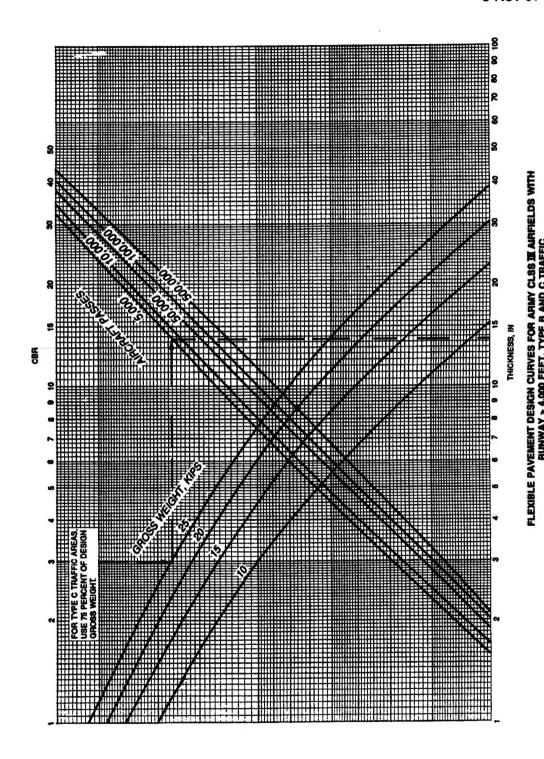




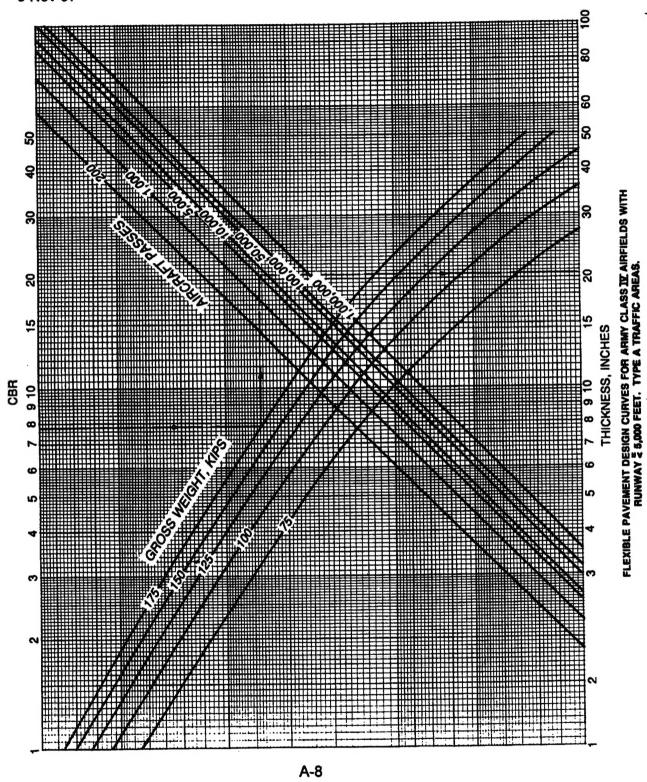


IFLEXIBLE PAVEMENT DESIGN CURVES FOR ARMY CLASS III ARFIELDS WITH RUNWAY 7 4,000 FEET. TYPE B AND C TRAFFIC AREAS

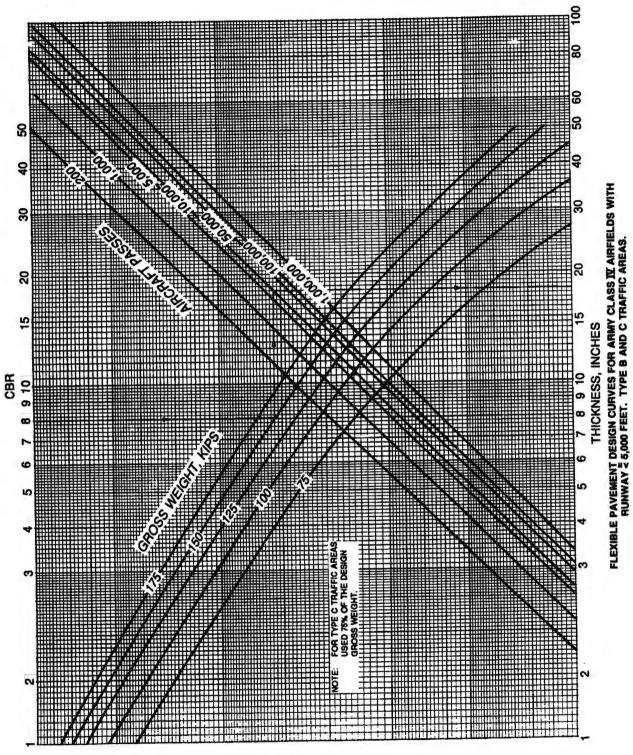




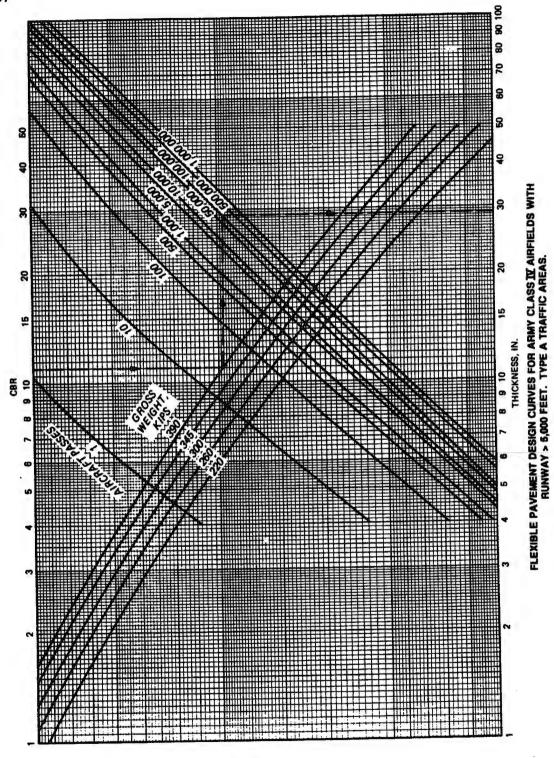
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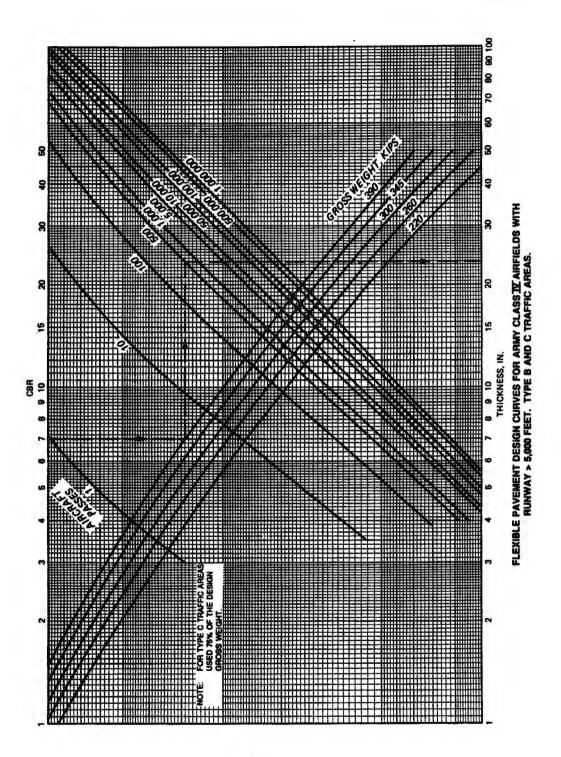


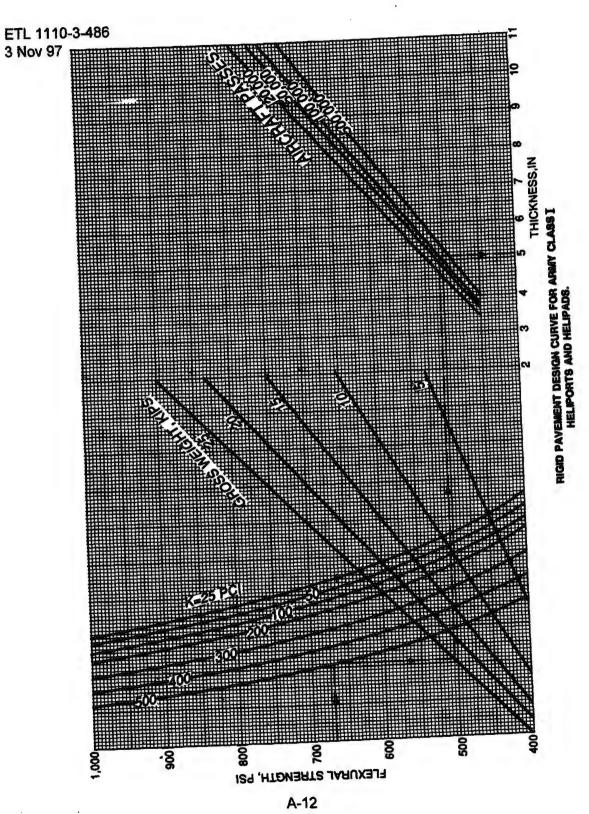
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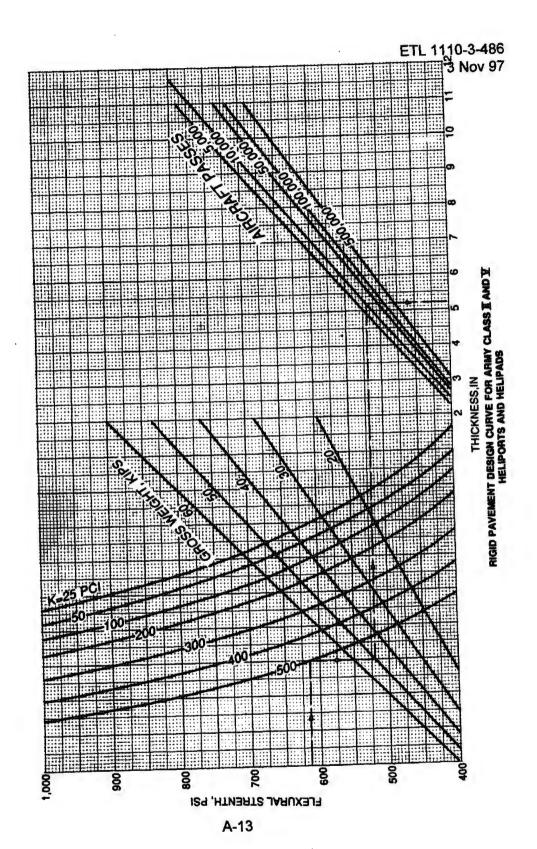


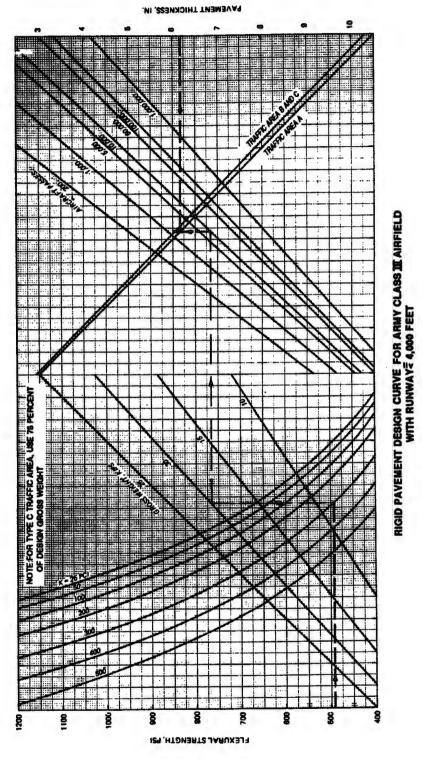
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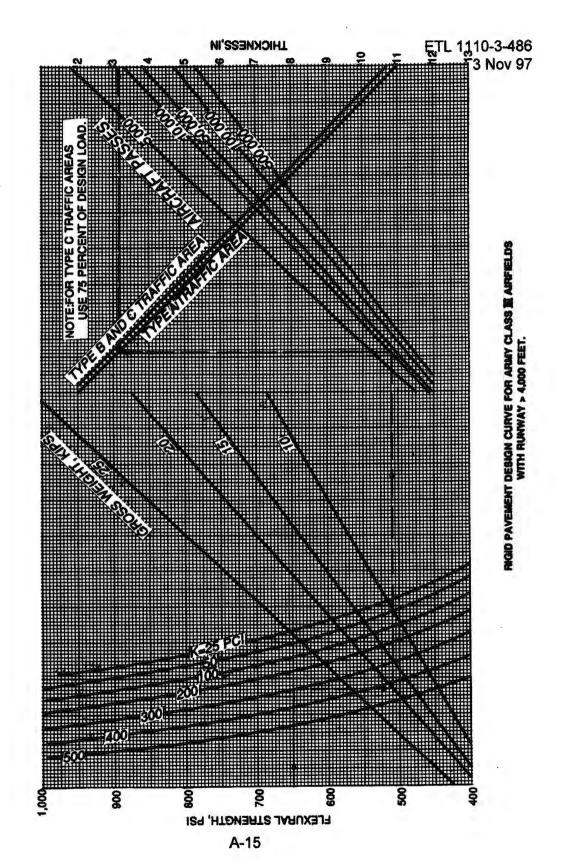




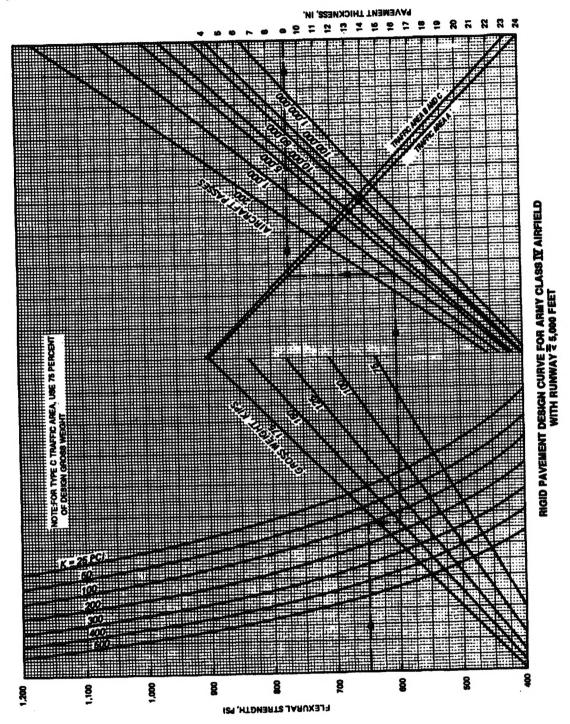




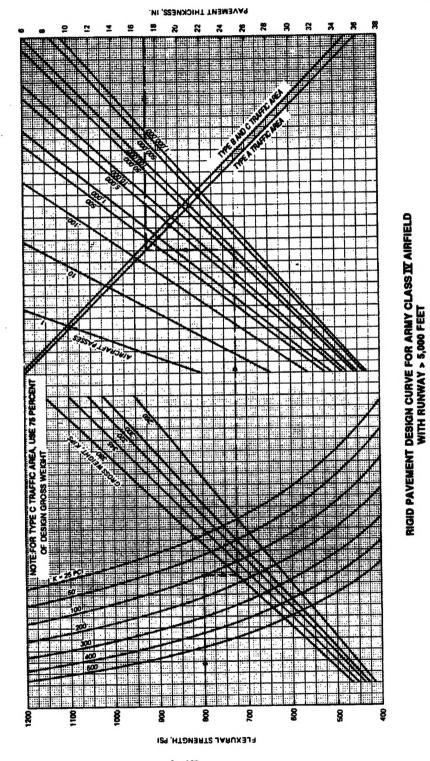
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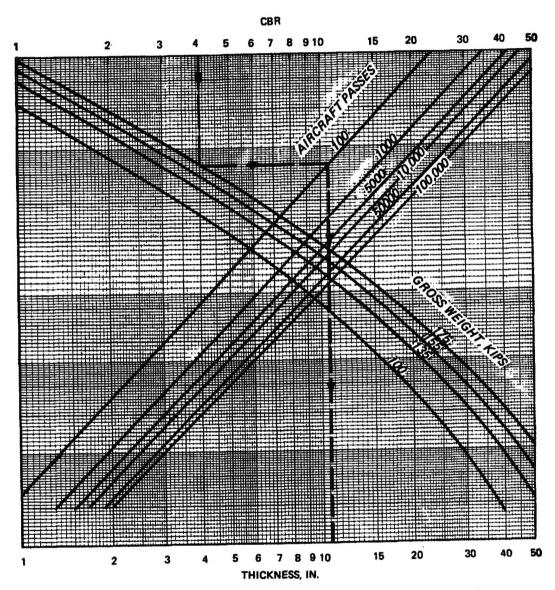
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AGGREGATE SURFACE DESIGN CURVES FOR ARMY CLASS VI AIRFIELDS.

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